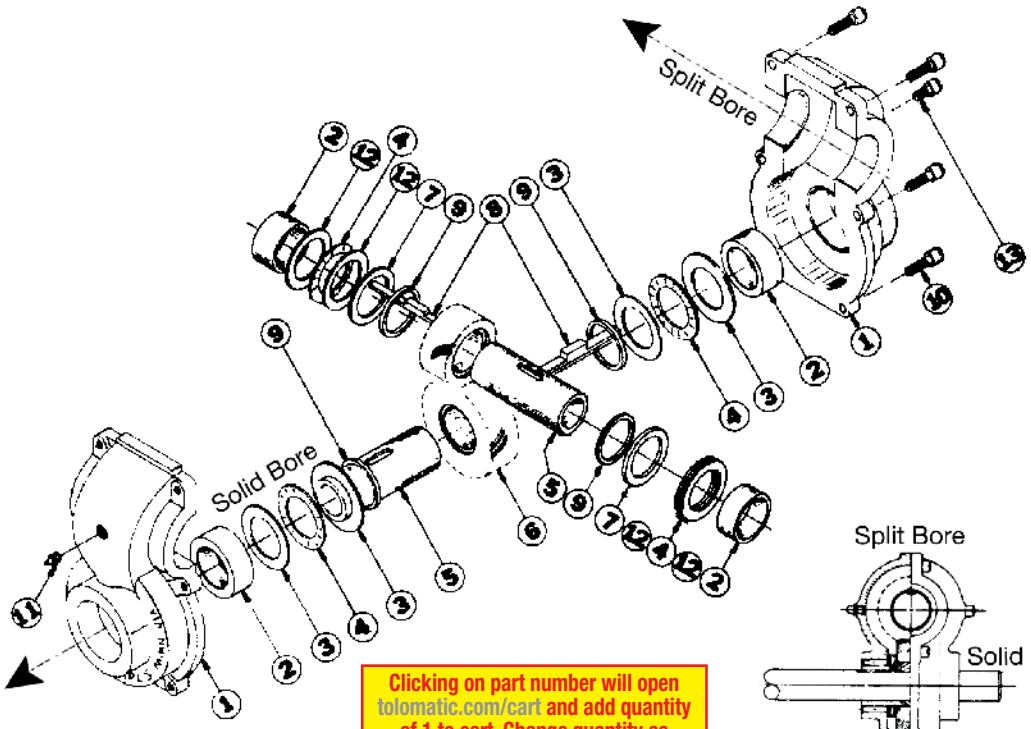
Tolomatic™
EXCELLENCE IN MOTION

Parts Sheet

0100-0222_05

FLOAT-A-SHAFT® Standard Series – 3:2 Ratio - METRIC

Standard - High Torque - Roller Bearing



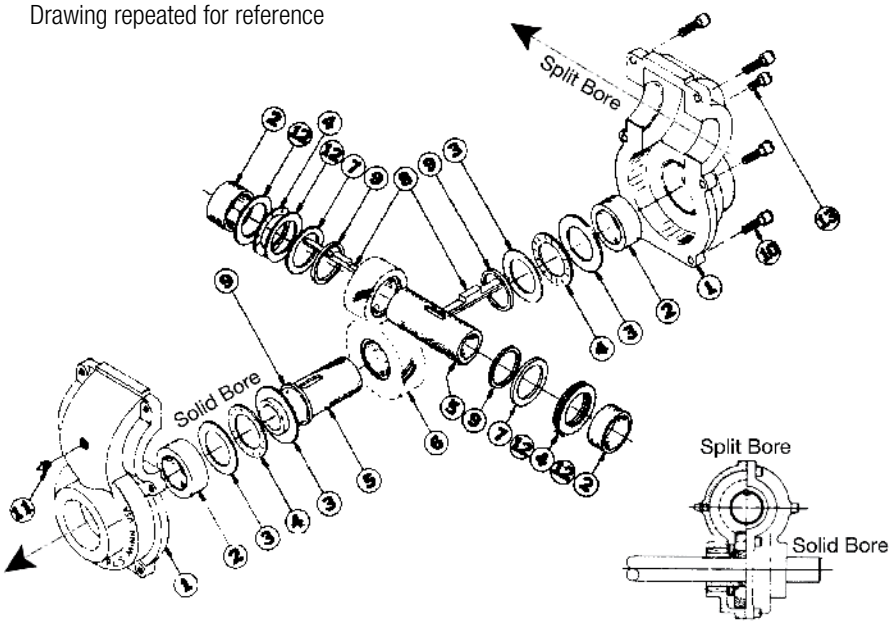
MODEL	R/LH	BORES
0348-0200	RH	20MM X 20MM
0349-0200	LH	20MM X 20MM
0350-0200	RH	20MM X 25MM
0351-0200	LH	20MM X 25MM
0352-0200	RH	20MM X 30MM
0353-0200	LH	20MM X 30MM
0354-0200	RH	25MM X 25MM
0355-0200	LH	25MM X 25MM
0356-0200	RH	25MM X 30MM
0357-0200	LH	25MM X 30MM
0358-0200	RH	30MM X 30MM
0359-0200	LH	30MM X 30MM

Clicking on part number will open tolomatic.com/cart and add quantity of 1 to cart. Change quantity as needed. CLICK ON BROWSER'S BACK BUTTON TO RETURN TO PARTS SHEET.

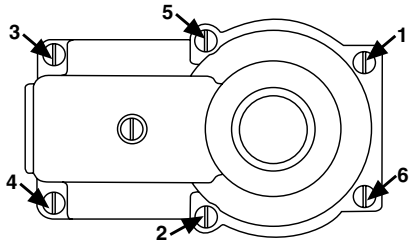
Click on Part No. to Add to Cart

ITEM	PART NO.	DESCRIPTION	QUANTITY											
			0348-0200	0349-0200	0350-0200	0351-0200	0352-0200	0353-0200	0354-0200	0355-0200	0356-0200	0357-0200	0358-0200	0359-0200
1	0226-9026	GEAR CASE HOUSING	1	1	1	1	1	1	1	1	1	1	1	1
2	0200-1526	BEARING, NEEDLE, ROLLER	4	4	4	4	4	4	4	4	4	4	4	4
3	0200-1326	WASHER, THRUST	4	4	4	4	4	4	4	4	4	4	4	4
4	0200-1222	BEARING, THRUST,	4	4	4	4	4	4	4	4	4	4	4	4
5	0200-3547	BUSHING, SLEEVE, STEEL, 20MM BORE	2	2	1	1	1	1						
	0200-3548	BUSHING, SLEEVE, STEEL, 25MM BORE			1	1			2	2	1	1		
	0200-3549	BUSHING, SLEEVE, STEEL, 30MM BORE					1	1			1	1	2	2
6	0200-1144	GEAR, 30 T, LH		1										
	0200-2144	GEAR, 30 T, RH	1											
	0200-1145	GEAR, 30 T, LH				1		1		1		1		1
	0200-2145	GEAR, 30 T, RH			1		1		1		1		1	
	0300-1118	GEAR, 20 T, LH		1		1		1						
	0300-2118	GEAR, 20 T, RH	1		1		1							
	0300-1119	GEAR, 20 T, LH								1		1		1
	0300-2119	GEAR, 20 T, RH							1		1		1	
7	0200-1330	SPACER, PL, NYLON RING	2	2	2	2	2	2	2	2	2	2	2	2
8	0200-1537	KEY, STEP, 8MM X 9.53MM					1	1			1	1	2	2
	0200-1536	KEY, STEP, 8MM X 11.89MM			1	1			2	2	1	1		
	0200-1535	KEY, STEP, 6MM X 13.36MM	2	2	1	1	1	1						
9	0200-1332	SPACER, PL, CELCON RING	4	4	4	4	4	4	4	4	4	4	4	4
10	0200-1812	SCREW, FILL HD, 1/4-20	6	6	6	6	6	6	6	6	6	6	6	6
11	0100-1601	ZERK GREASE FITTING, 1/4-28	1	1	1	1	1	1	1	1	1	1	1	1
12	0200-1225	WASHER, THRUST	4	4	4	4	4	4	4	4	4	4	4	4
13	0100-2604	SCREW, FILL HD, 1/4-28	1	1	1	1	1	1	1	1	1	1	1	1

Drawing repeated for reference

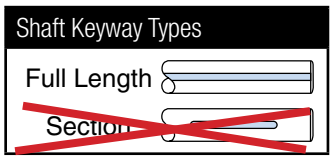


Gear (6) over the Sleeve Bushing (5) positioning it over Key (8). Install Plastic Spacer (9) and a Nylon Ring Spacer (7) on both sides of gear. Lubricate all bearings and the Gear (6) manually (See "Lubrication"). Install a Thrust Washer (12), Thrust Bearing (4), and Thrust Washer (12) on each side of gear. Install a Roller Bearing (2) on each side of Gear (6). Lay the completed assembly into the split bore of the Gear Case Housing (1), making sure the teeth of the gears mesh. **CAUTION:** When trying to get the gears to mesh, rotate the gears to prevent possible damage to the teeth. Next, cover gears and bearings with approximately 3 oz. of lubricant. To complete assembly, install the other half of the Gear Case Housing (1) and tighten the Screws (10) in the order shown here. In case of



shaft binding, check for possible misalignment of the shafts or for oversized shaft diameters.

Installation



Keyway MUST extend to end of shaft. IT IS NOT POSSIBLE TO USE A SECTIONED SHAFT WITH A ROLLER BEARING FLOAT-A-SHAFT. Without removing the plastic tubes, align the Float-A-Shaft® with the shaft on which it is to be used and gently press it on. Be sure the key is properly aligned with the keyway. The plastic tubes will fall out as the shaft extends through the unit. Save the plastic tubes for removal of the Float-A-Shaft® for maintenance or repair. Be sure to reinsert the plastic tubes as the shaft is withdrawn, otherwise the internal parts will slip out of position and disassembly may be required to restore proper alignment.

Reassembly: Reference the numbering diagram on page 1 to complete the following instructions, matching the numbers with corresponding bores.

SOLID BORE REASSEMBLY: Lay Gear Case Housing (1) horizontal, with inside surface facing up. Install Roller Bearing (2) in solid bores of Gear Case Housing (1). Press from inside to outside. Inside face of roller bearing must be flush with inside machined surface of gear case housing. Next, Insert Key (8) into slot of Sleeve Bushing (5) and insert the plastic tube to hold it in place. Install Gear (6) over the Sleeve Bushing (5) positioning it over Key (8). Install Plastic Spacer (9) on both sides of gear. Lubricate Roller Bearing (2), Thrust Bearing (4), and Gear (7) manually (See "Lubrication"). Install a Thrust Washer (3), Thrust Bearing (4), and Thrust Washer (3) on each side of gear. Lay the Gear Case Housing (1) horizontal, with the solid bore vertical and inside surface facing up. Install gear, sleeve and bearing assembly into the solid bore.

SPLIT BORE REASSEMBLY: Insert Key (8) into slot of Sleeve Bushing (5) and insert the plastic tube to hold it in place. Install

Shaft Requirements: Shafts should be made of power transmission steel grade 4140 or better. A tolerance of +.000/- .002 is recommended for the shaft diameters. The shaft surfaces should be 32 RMS maximum for stationary applications, and 16 RMS maximum for traversing applications. Shaft straightness should be .0015 TIR per foot.

LUBRICATION AND MAINTENANCE SCHEDULE: All Float-A-Shaft® gear boxes have been lubricated at the factory with Mobilith® SHC 460. Standard Float-A-Shaft® gear boxes are initially filled with 2.8 oz. (82.8 ml) of grease to achieve 54% fill on the units. However, units require more lubrication prior to operation. Periodic re-lubrication is also necessary for optimum performance. When re-lubricating, inject Mobilith® SHC 460 (maximum operating temperature of 300˚F or higher and EP rated) into gear case, as required, via the grease zerk provided. *Mobilith® SHC 460 - 14 oz grease cartridge • P/N 0100-1605*
Lubrication and maintenance schedules are dependent on the application. General guidance is provided below and a maintenance plan can be developed based on the use case.

	USE CASE		
MAINTENANCE	**Continuous/ Heavy Duty**	**Intermittent/ Light Duty**	**Minimal**
Inject *1/4 oz. of Mobilith SHC460* into gear housing	1 ½ Months	3 Months	6 Months
Disassemble and purge unit. Hand lubricate all bearings and gears with *3 oz. of Mobilith SHC460*	6 Months	1 Year	1 Year

Mobilith® SHC 460 is a registered trademark of Exxon Mobil Corporation, www.mobil.com
Float-A-Shaft® is a registered trademark of Tolomatic, Inc.

Tolomatic™
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